

PESTICIDES REGISTERED FOR MANGO

Mike Kawate
Department of Environmental Biochemistry
College of Tropical Agriculture and Human Resources
University of Hawaii at Manoa

The following is a list of pesticides currently registered for use in mango. **However, this list is not a substitute for pesticide labels.** Users should determine whether the particular pesticide that they want to use, can legally be used on mango **before** they purchase the pesticide. Read labels completely and carefully because restrictions may apply (e.g., Fusilade 2000 and Touchdown labels specify for crop establishment, nonbearing use, only; also, various copper hydroxide products are registered for use on mango in Florida only).

Requests for pesticide registration research should be directed to the Chairman of GACC's Pesticide Subcommittee, currently Mr. Ray

Nishiyama. Pest problem(s) should be identified and losses due to those pest(s) documented.

NOTE:

Mention of a trademark or a proprietary product does not constitute a guarantee or warranty of the product by the University of Hawaii and does not imply its approval to the exclusion of other products that also may be suitable or that may have been inadvertently not listed. **All materials should be used in accordance with label instructions.**

FUNGICIDES^a

Common name	Trade name	Registrant	Pests on label
<i>benomyl</i>	Benlate (EPA Reg. No. 352-354)	Du Pont	Anthracnose ^b
<i>copper sulfate</i>	Tennessee Brand Tri-Basic Copper Sulfate (EPA Reg. No. 1109-13)	Tennessee	Anthracnose
<i>sulfur</i>	Microthiol Special (EPA Reg. No. 4581-373)	Elf Atochem	Powdery mildew
	Thiolux Dry Flowable Micronized Sulfur (EPA Reg. No. 55947-48)	Sandoz	Powdery mildew
<i>thiabendazole</i>	Decco Salt No. 19 (EPA Reg. No. 2792-50)	Atochem NA	Anthracnose (postharvest)

^a Although a tolerance exists for Captan in mango, no pesticides are currently registered for this use.

^b Frequent use of Benlate will result in development of resistant strains. Use judiciously and alternate with other registered fungicides.

INSECTICIDES

Common name	Trade name	Registrant	Pests on label
<i>methidathion</i>	Supracide 2E (EPA Reg. No. 100-501)	Ciba-Geigy	False oleander scale
<i>malathion</i> (+ protein bait)	Malathion 8 Aquamul (EPA Reg. No. 34704-474)	Platte	Fruit flies
	*Malathion 50 Plus Insect Spray (EPA Reg. No. 239-739)	Chevron	Various insect pests
	*Malathion 50 Insect Spray (EPA Reg. No. 239-739)	Chevron	Various insect pests
<i>petroleum distillate</i> (+ Malathion 50 Insect Spray)	*Volck Oil Spray (EPA Reg. No. 239-16)	Chevron	Various insect pests
<i>Bacillus thurengiensis</i> var. <i>kurstaki</i>	Dipel 2X (EPA Reg. No. 275-37)	Abbott	Lepidoptera (caterpillars)
<i>pyrethrins</i> + <i>rotenone</i>	Pyrellin E.C. (EPA Reg. No. 30573-2)	CCT Corp.	Various insect pests
<i>pyrethrins</i> + <i>piperonyl butoxide</i>	Pyrenone Crop Spray (EPA Reg. No. 4816-490)	Fairfield	Various insect pests
<i>potassium salts of</i> <i>fatty acids</i>	Attack Soap Concentrate (EPA Reg. No. 36488-45)	Ringer	Various insect pests

*Chevron's Ortho products are probably available in small containers only (i.e., quart bottles).

Ortho products are packaged for backyard, not commercial, growers.

Note: Chevron's Ortho Volck Oil Spray (EPA Reg. No. 239-16) is **not** the same product as Volck Supreme Spray (EPA Reg. No. 59639-20) that is manufactured by Valent. Chevron's Ortho Volck Oil Spray is less refined than Valent's Volck Supreme Spray, and therefore may be phytotoxic to sensitive varieties. Treat a small section of a tree and watch for phytotoxicity before spraying the entire orchard. Also, Valent's Volck Supreme Spray is **not** registered for use in mango.

HERBICIDES

Common name	Trade name	Registrant	Pests on label
<i>fluazifop-p-butyl</i>	Fusilade 2000 (EPA Reg. No. 10182-104) (crop establishment/nonbearing use only)	ICI	Grassy weed control
<i>glyphosate</i>	Roundup (EPA Reg. No. 524-445)	Monsanto	General weed control
<i>sulfosate</i>	Touchdown (EPA Reg. No. 10182-324) (crop establishment/nonbearing use only)	ICI	General weed control

FLORIDA USE ONLY

Common name	Trade name	Registrant	Pests on label
<i>copper hydroxide</i> (fungicide)	Champ Flowable (EPA Reg. No. 55146-41)	Agtrol	Anthracnose
	Champion WP (EPA Reg. No. 55146-1)	Agtrol	Anthracnose
	Kocide 101 WP (EPA Reg. No. 1812-288)	Griffin	Anthracnose
	Kocide 606 Flowable (EPA Reg. No. 1812-303)	Griffin	Anthracnose
	Kocide DF (EPA Reg. No. 1812-334)	Griffin	Anthracnose

PESTICIDE REGISTRATION ACTIVITIES

Common name	Trade name	Registrant	Pests on label
FLORIDA (IR-4) <i>chlorothalonil</i>	Bravo	ISK Biotech	Powdery mildew Anthracnose (?)
NATIONAL (MILES) <i>imidacloprid</i>	Merit	Miles	Piercing/sucking insects
HAWAII <i>refined petroleum distillate</i> + Na-bicarbonate	SunSpray Ultra-Fine Spray Oil	Safer	Powdery mildew